

### Claims

1. Deep-rolling roller head of a deep-rolling tool for the deep rolling of radii or undercuts on the bearing journals of crankshafts by means of deep-rolling rollers that a freely rotatable in roller cages, that are supported at a distance from each other nearly in the center of the underside of the prismatic housing of the deep-rolling roller head towards the crankshaft, each on the face at the end of the long leg of two L-shaped holding devices each possessing one long and one short leg, whereby a holding device can be adjusted and fixed in the direction of the center of the underside in that the long leg is provided with an oblong hole into which a first screw is inserted and by which the L-shaped holding device concerned is held on the underside of the housing while a second screw passes through a bore in the short leg and enters with its outer end into a bore at the face of the housing adjoining the underside, whereby the second screw is provided to adjust the precise position of the roller cage in relation to the center of the underside,  
characterized in that
  - One of the two faces (16, 21, 25) of the housing (7) adjoining the underside (6) is at a predetermined first distance (18) from the center (5) of the underside over at least a segment (17) of its length,
  - the short leg (10) of the appertaining L-shaped holding device (11) is supported over at least a segment of its inside (19) towards the housing (7) on the segment(17) of the housing (7) that is at a first distance (18) from the center (5) of the underside (6), while

- the front (8) of the long leg (9) of this holding device (11) supporting the adjoining roller cage (3) is at a predetermined second distance (20) from the segment (17) of the housing (7) on which the short leg (10) is supported.

- 5    2.    Deep-rolling roller head as in claim 1, where one of the two faces (16) adjoining the underside (6) of the housing (7) constitutes the front (21) of the deep-rolling roller head (1), characterized in that the front (25) of the housing (7) away from the front (21) is at the first distance (18) from the center (5) of the underside (6).